

specifying transformations of color values by designating combinations of the color imaging devices as source and destination color imaging devices;

applying the forward transformation profile for each of the source color imaging devices to produce corresponding source device-independent color values;

applying the forward transformation profile for each of the destination color imaging devices to produce corresponding destination device-independent color values;

reducing error between the source and destination device-independent color values for selected combinations of source and destination color imaging devices to generate color conversions;

generating device links based on the color conversions, each of the device links defining a transformation of color values for one of the combinations of source and destination color imaging devices;

storing the device links;

when a user requests transformation for a selected combination of the source and destination color imaging systems:

determining whether one of the stored device links corresponds to the selected combination,

if so, applying the corresponding device link to provide the requested transformation, and

if not, constructing a new device link for the selected combination.

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45 47. (Amended) A method for transforming color values between source and destination color imaging devices, the method [system] comprising:

applying forward transformation profiles to transform device-dependent color values to device-independent color values for various source and destination color imaging devices;

reducing error between the source and destination device-independent color values for selected combinations of source and destination color imaging devices;